

EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

ドットテスト

PUBLICATION NUMBER : 2003043025
PUBLICATION DATE : 13-02-03
APPLICATION DATE : 26-07-01
APPLICATION NUMBER : 2001226496

試料溶液 0.1ml

La-ACL含浸プレート

(a)

APPLICANT : TOHOKU TECHNO ARCH CO LTD;

INVENTOR : YOTSUYANAGI TAKAO;

INT.CL. : G01N 31/00 G01N 21/78 G01N 31/22

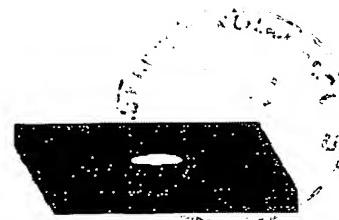
30分間静置

(b)



TITLE : PLATE FOR DETECTING FLUORIDE ION, AND METHOD FOR JUDGING CONCENTRATION OF FLUORIDE ION USING THE PLATE

(c) 目視



ABSTRACT : PROBLEM TO BE SOLVED: To provide a method capable of performing simplified visual quantitative determination of the concentration of fluoride ions.

SOLUTION: An octadecyl group binding silica gel (ODS) plate used for thin-layer chromatography is pregnated with an La-ACL complex to be used as a solid phase medium. A sample containing fluoride ions is spotted on the ODS plate for performing spot tests. In the spot test, 2:1:1 mixed solution of sample solution containing fluoride ions, buffer solution, and ethanol is spotted on the dipping plate by 0.1 ml, is wiped off after the mixed solution is placed quietly for 30 minutes, and the color is viewed to judge the concentration of the fluoride ions. Spotting the sample solution on the thin-layer plate where La-ACL complex is dipped causes the color of a red-ultraviolet plate to change from blue to white depending on the concentration of the fluoride ions.

COPYRIGHT: (C)2003,JPO